

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

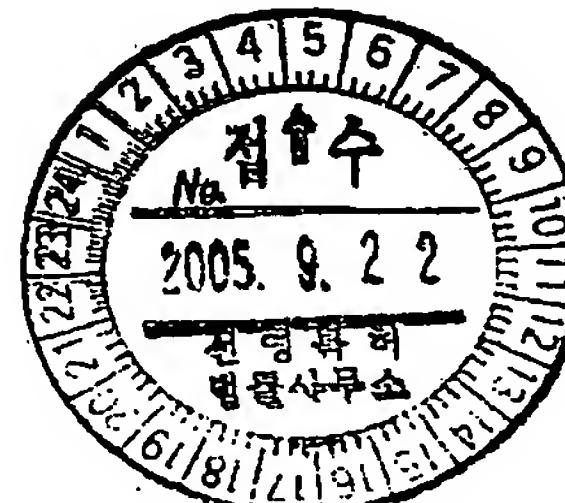
Applicant's or agent's file reference 05FLWW070	FOR FURTHER ACTION <i>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</i>	
International application No. PCT/KR2005/001689	International filing date (day/month/year) 07 JUNE 2005 (07.06.2005)	(Earliest) Priority Date (day/month/year) 24 JUNE 2004 (24.06.2004)
Applicant LG ELECTRONICS, INC. et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
 - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed; unless otherwise indicated under this item.
 - The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
 - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.
2. Certain claims were found unsearchable (See Box No. II)
3. Unity of invention is lacking (See Box No. III)
4. With regard to the title,
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:



5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
 - a. the figure of the drawings to be published with the abstract is Figure No. 4
 - as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.
 - b. none of the figure is to be published with the abstract.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/001689

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 A47L 15/42**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B08B, A47L 15/00, 15/22, 15/42, 15/46, 15/48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Utility models and applications for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3963046 A (Richard P. Bergeson) 15 June 1976 see abstract; figure3; column 5, line 22-49	1-17
X A	US 5355900 A (Hirosh Sakata) 18 October 1994 see abstract; figure 1	1,4 2-3, 5-17
X A	JP 09164105 A2 (MITUBISHI ELECTRIC CORP) 24 June 1997 see the whole document	1,4 2-3, 5-17
X A	JP 07059708 A2 (MATSUSHITA ELECTRIC IND. CO. LTD.) 7 March 1995 see the whole document	1,4 2-3, 5-17
X A	JP 02142525 A2 (MITUBISHI ELECTRIC IND. CO. LTD.) 31 May 1990 see the whole document	1,4 2-3, 5-17
X A	WO 03059142 A1 (ARCELIK A.S.) 24 July 2003 see abstract; figure 1	1,4 2-3, 5-17

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
12 SEPTEMBER 2005 (12.09.2005)

Date of mailing of the international search report

12 SEPTEMBER 2005 (12.09.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2005/001689

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US03963046 A	15.06.1976	CA1037828A1 US3906967A	05.09.1978 23.09.1975
US05355900 A	18.10.1994	GB2262027A1 GB2262027B2 GB9225430A0 JP05154082 JP2904454B2 JP5154082A2	09.06.1993 09.08.1995 27.01.1993 22.06.1993 14.06.1999 22.06.1993
JP09164105 A2	24.06.1997	None	
JP07059708 A2	07.03.1995	None	
JP02142525 A2	31.05.1990	None	
W003059142A1	24.07.2003	AU2002367006A1 AU2002367006AA W02003059142A1	30.07.2003 30.07.2003 24.07.2003

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